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pages of specification

and/or sequence listing

and/or table

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content unspecified or combined

Doc Code: Artifact

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Artifact Type Code: P

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Artifact Type Code: S

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Artifact Type Code: U

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Other, description:

Doc Code: Artifact

5,999,827 Patent No.  
Artifact Type Code: Z

# The United States of America



## The Commissioner of Patents and Trademarks

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

## United States Patent

*Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.*

*If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.*

*If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.*

*T. Todd Johnson*

Commissioner of Patents and Trademarks

*Pandra L. Morton*  
Attest

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[54] **COMMUNICATION TERMINAL APPARATUS  
AND CONTROL METHOD THEREOF**

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[\*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: **08/932,942**

[22] Filed: **Sep. 17, 1997**

**Related U.S. Application Data**

[62] Division of application No. 08/421,945, Apr. 13, 1995, abandoned.

[30] **Foreign Application Priority Data**

Apr. 20, 1994 [JP] Japan ..... 6-104350  
Aug. 31, 1994 [JP] Japan ..... 6-232327

[51] **Int. Cl.<sup>6</sup>** ..... **H04B 1/38; H04M 1/00**  
[52] **U.S. Cl.** ..... **455/564; 455/566; 455/575;**  
455/90; 345/169

[58] **Field of Search** ..... 455/424, 550,  
455/566, 575, 90, 186.1, 95, 128, 154.1,  
158.1, 351, 158.4, 564; 379/428, 433-434,  
367, 368; 345/163, 167-169, 184; 463/37;  
273/148 B

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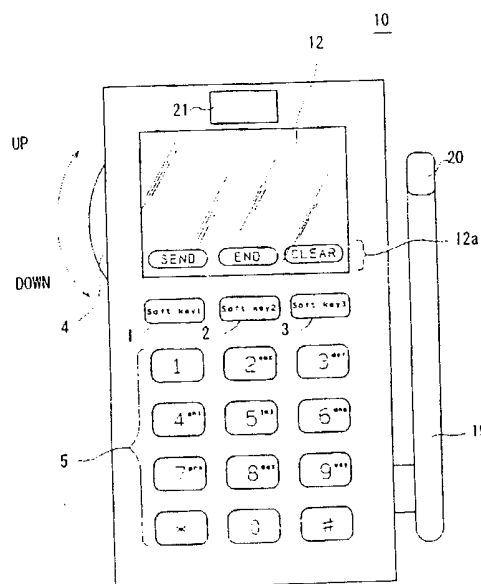
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[57] **ABSTRACT**

A communication terminal apparatus such as a portable telephone apparatus has a main body, a selection operation unit, an operation inputting unit, a display unit, and a controller. The main body has a speaker and a microphone. The selection operation unit is provided on the main body and selects one mode from a plurality of modes of the communication terminal apparatus. The operation inputting unit is provided on the main body and changes functions based on the mode selected by the selection operation unit. The display unit is provided on the main body and displays information required for selection operation or inputting operation by the selection operation unit and/or the operation inputting unit. The controller sets a mode selected based on the input from the selection operation unit, and switches a function of the operation inputting unit based on the input from the selection operation unit. The controller controls display operation of the display unit based on the input from the selection operation unit and/or the operation inputting unit.

**4 Claims, 28 Drawing Sheets**



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